

		Agricultural	Chemical	Control Systems	Fire Protection	Industrial	Manufacturing	Metallurgical	Nuclear	Petroleum	Traffic
Current Population		510	5,853	7,216	1439	4,262	4,757	1,869	2,361	1,751	1,955
1. Percentage admitted without examination (grandfathered)		83%	27%	66%	75%	-0-	98%	-0-	93%	-0-	57%
2. Number tested annually (five year average)		4	167	30	32	13	3	7	7	22	98
3. How many unregistered engineers work in this discipline?		Impossible to estimate -- none of the professional organizations or the state licensing boards have records of unregistered engineers.									
4. Number of other states regulating engineers in branch.		45	50	43	43	47	43	43	43	45	0
5. Generally employed by:	government	Yes	Yes	Yes	Yes	No	No	No	Yes	Yes	Yes
	exempt industry	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
	private practice	No	Yes	No	Yes	No	Yes	No	No	No	Yes
6. Are engineers generally in responsible charge/using independent judgment or supervised/required to have their work stamped and signed by others?		It is not necessary to be registered to do the work of any of the title act engineers. However, some state and local agencies require fire protection and traffic engineering work to be stamped. Since such work can be done by anyone -- registered or not -- the work does not need to be stamped. One of the goals of the Board's enforcement unit is to meet with city, county and state agencies and educate them about the laws governing the practice of engineering.									
7. Who are the consumers of the services and are they sophisticated enough to choose a qualified engineer in the branch?		Very few title act engineers consult to the general public. The majority are employed by exempt industries and government agencies.									
8. Is there evidence of actual or potential damage to the public? Would incompetent or negligent practice directly or indirectly affect an individual consumer?		Incompetent practice of agricultural, chemical, control systems, fire protection, nuclear, and traffic engineering could definitely affect public safety which directly impacts individual consumer.									

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9. Would instances of damage to public have occurred even though registration exists? e.g., problems related to different aspect of engineering or to an exempt area.	Cannot answer authoritatively. Very difficult to evaluate other than on a case by case basis.										
10. Do local, state, or federal government agencies require registration in the branch for performance of these engineering services?	No	No	No	Some local & state gov't agencies want fire protection designs stamped, but the work can be done by anyone, registered or not. No stamp is required. Enforcement unit working to educate gov't agencies.	No	No	No	No	No	Some local & state gov't agencies require traffic studies or designs to be stamped, but the work can be done by anyone, registered or not. It does not need to be stamped. Enforcement unit working to educate gov't agencies.	
11. Are there other local, state, or federal agencies which regulate or have oversight of the services provided by engineers registered in the branch?	No	No	No	No	No	No	No	No	No	No	
12. Extent branch overlaps with others; could title act be assigned to practice act based on prior experience?*	In 1987, the Board's professional engineering staff evaluated the relationship between the title acts and the practice acts. That study has been reviewed by current engineering staff which agrees with the earlier findings. The staff concluded that none of the title branches neatly fits into a single practice branch. Staff estimated the percentage of overlap of the field of expertise of each title branch with each practice branch. The estimates are based on review of applications as well as other sources of information. The percentages assigned are relative. It was the engineering staff's opinion that if the percentage of a particular title branch included under the combined total of the practice branches is less than 70%, it would indicate a relatively poor fit and it would be a difficult to place such a branch under the practice branches.										
	Civil	20%	0	10%	10%	0	0	10%	20%	10%	40%
	Elect.	0	0	60%	40%	0	0	0	0	0	20%
	Mech.	30%	10%	30%	50%	30%	50%	30%	30%	10%	10%